SEQUENCE LISTING

(1) GENERAL INFORMATION:

    (i) APPLICANT:
        (A) NAME: MEDICAL RESEARCH COUNCIL
        (B) STREET: 20 Park Crescent
        (C) CITY: London
        (E) COUNTRY: United Kingdom
        (F) POSTAL CODE (ZIP): W1N 4AL

    (ii) TITLE OF INVENTION: LIVE ATTENUATED VACCINES

    (iii) NUMBER OF SEQUENCES: 18

    (iv) COMPUTER READABLE FORM:
        (A) MEDIUM TYPE: Floppy disk
        (B) COMPUTER: IBM PC compatible
        (C) OPERATING SYSTEM: PC-DOS/MS-DOS
        (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

    (v) CURRENT APPLICATION DATA:
        APPLICATION NUMBER: WO PCT/GB98/01683

(2) INFORMATION FOR SEQ ID NO: 1:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 31 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "primer"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GGAATTCGAY WSCGAYGAYR TBCGBCAYAT G   31

(2) INFORMATION FOR SEQ ID NO: 2:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 31 base pairs
        (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
            (A) DESCRIPTION: /desc = "primer"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGAATTCRTC VGGRATRTGR TTCATRTCCA T   31

(2) INFORMATION FOR SEQ ID NO: 3:

    (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 27 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
            (A) DESCRIPTION: /desc = "primer"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GCAGATGCCC GAAGCTTTTT ATAGCGG   27

(2) INFORMATION FOR SEQ ID NO: 4:

    (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 36 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
            (A) DESCRIPTION: /desc = "primer"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GAGCTCGGTA CCGTGCAGCG TGTCCAGATC TGCAAG   36

(2) INFORMATION FOR SEQ ID NO: 5:

    (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 24 base pairs
           (B) TYPE: nucleic acid
           (C) STRANDEDNESS: single
           (D) TOPOLOGY: linear

      (ii) MOLECULE TYPE: other nucleic acid
           (A) DESCRIPTION: /desc = "primer"

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

CATAAAGGGA TCCTGGTTCG CCAG   24

(2) INFORMATION FOR SEQ ID NO: 6:

      (i) SEQUENCE CHARACTERISTICS:
           (A) LENGTH: 37 base pairs
           (B) TYPE: nucleic acid
           (C) STRANDEDNESS: single
           (D) TOPOLOGY: linear

      (ii) MOLECULE TYPE: other nucleic acid
           (A) DESCRIPTION: /desc = "primer"

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

GGTACCGAGC TCCAAATGAA GGCAGATCTC GTCGCCC   37

(2) INFORMATION FOR SEQ ID NO: 7:

      (i) SEQUENCE CHARACTERISTICS:
           (A) LENGTH: 27 base pairs
           (B) TYPE: nucleic acid
           (C) STRANDEDNESS: single
           (D) TOPOLOGY: linear

      (ii) MOLECULE TYPE: other nucleic acid
           (A) DESCRIPTION: /desc = "primer"

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

ACAATGAAAG TAGAATTCGT CGGCTGG   27

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:
           (A) LENGTH: 27 base pairs
           (B) TYPE: nucleic acid
           (C) STRANDEDNESS: single
           (D) TOPOLOGY: linear

      (ii) MOLECULE TYPE: other nucleic acid
           (A) DESCRIPTION: /desc = "primer"

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

GAABGCSGWG ATGAATTCGC CGCCCAT   27

(2) INFORMATION FOR SEQ ID NO: 9:

       (i) SEQUENCE CHARACTERISTICS:
           (A) LENGTH: 19 base pairs
           (B) TYPE: nucleic acid
           (C) STRANDEDNESS: single
           (D) TOPOLOGY: linear

      (ii) MOLECULE TYPE: other nucleic acid
           (A) DESCRIPTION: /desc = "primer"

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

CCCTGCTCAC GTCGACCAG   19

(2) INFORMATION FOR SEQ ID NO: 10:

       (i) SEQUENCE CHARACTERISTICS:
           (A) LENGTH: 19 base pairs
           (B) TYPE: nucleic acid
           (C) STRANDEDNESS: single
           (D) TOPOLOGY: linear

      (ii) MOLECULE TYPE: other nucleic acid
           (A) DESCRIPTION: /desc = "primer"

      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

ACGCGGTCGA CGCTGCACG   19

(2) INFORMATION FOR SEQ ID NO: 11:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 24 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "primer"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

AATACGCAAT TGGATCCTGC TTGC   24

(2) INFORMATION FOR SEQ ID NO: 12:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 25 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "primer"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GATATTGAAT CATATGGAAA AATTC   25

(2) INFORMATION FOR SEQ ID NO: 13:

    (i) SEQUENCE CHARACTERISTICS:
        (A) LENGTH: 27 base pairs
        (B) TYPE: nucleic acid
        (C) STRANDEDNESS: single
        (D) TOPOLOGY: linear

    (ii) MOLECULE TYPE: other nucleic acid
        (A) DESCRIPTION: /desc = "primer"

    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

AATCATGGTC ATATGTGTTT CCTG   24

(2) INFORMATION FOR SEQ ID NO: 17:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 23 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: other nucleic acid
            (A) DESCRIPTION: /desc = "primer"

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

CGGAATTCGG TCTGAAGCGG ATG   23

(2) INFORMATION FOR SEQ ID NO: 18:

        (i) SEQUENCE CHARACTERISTICS:
            (A) LENGTH: 24 base pairs
            (B) TYPE: nucleic acid
            (C) STRANDEDNESS: single
            (D) TOPOLOGY: linear

        (ii) MOLECULE TYPE: other nucleic acid
            (A) DESCRIPTION: /desc = "primer"

        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

CGCAGCAGGA ATTCCCGTTT ATCG   24

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